

WHAT IS CLAIMED IS:

1. An image data processing apparatus for processing image data to be printed, comprising:

5 a print-quality acquisition unit adapted to acquire information relating to print quality; and
a selection unit adapted to select a combination of a color space and bit precision to which the image data to be printed will be converted, based upon the acquired information relating to print quality;

10 wherein the image data is converted to the color space and bit precision selected by said selection unit.

2. The apparatus according to claim 1, wherein a plurality of combinations are provided, each
15 combination having a different color space size and bit precision; and

at least one combination among the plurality of combinations has a bit precision lower and a color space of a size smaller than those of the other
20 combinations.

3. The apparatus according to claim 1, wherein the information relating to print quality is type of medium on which the image data is printed.

4. The apparatus according to claim 1, wherein the
25 information relating to print quality is resolution that prevails when the image data is printed.

5. An image data processing method for processing

image data to be printed, comprising:

a print-quality acquisition step of acquiring information relating to print quality; and

a selection step of selecting a combination of a
5 color space and bit precision to which the image data to be printed will be converted, based upon the acquired information relating to print quality;

wherein the image data is converted to the color space and bit precision selected at said selection
10 step.

6. The method according to claim 5, wherein said selection step is capable of selecting either of 8-bit sRGB color space or 16-bit xRGB color space.

7. The method according to claim 5, wherein the
15 information relating to print quality is type of medium on which the image data is printed.

8. The method according to claim 5, wherein the information relating to print quality is resolution that prevails when the image data is printed.

20 9. A control program for causing the image data processing method set forth in claim 5 to be implemented by a computer.

10. A recording medium storing a control program for causing the image data processing method set forth in
25 claim 5 to be implemented by a computer.

11. An image data processing apparatus comprising:

a photography mode setting unit adapted to set a photography mode at the time of photography;

a photography unit adapted to photograph a subject based upon the set photography mode;

5 a selection unit adapted to select a color space from a plurality of color spaces with a different color gamut in accordance with the photography mode; and

10 a color conversion unit adapted to convert the color space of the photographed image data into the selected color space.

12. The apparatus according to claim 11, wherein the photography mode includes any of at least a portrait photography mode, a scenery photography mode and a
15 night scenery photography mode.

13. The apparatus according to claim 11, further comprising a color space setting unit adapted to set a color space based upon the user instruction, and

 wherein if the color space selected by said
20 selection unit and the color space set by said color space setting unit are different, said color conversion unit converts space of the photographed image data into each of these color spaces.

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